NAPHSIS Messaging Project

Public Health Information Network Stakeholders' Conference

NAPHSIS

- National Association of Public Health Statistics and Information Systems

- Vital Records

- Births, Deaths, Marriages, Divorces

Goal

- Create a set of HL7 messages to exchange data on births and deaths

Purpose

- Leverage the software development dollars that we spend for internal staff and vendors

Partners and Data

- Vital Records contain legal and health data
- Birth data obtained from hospitals
- Death data obtained from mortuaries and doctors
- Certificates issued by state and local agencies
- Data sent to NCHS and SSA

Information Technology

- Working on standards to leverage software development dollars

- Working on NEDSS compatible data model

- Working on functional specifications

- Using the NCHS field definitions

- Working on messages to exchange data between partners

Background

- NCHS has defined new certificates with detailed field definitions
- States will add state specific data

Messaging Project

- NEDSS contractor has built a vital records message

- Trying to implement his schema with NCHS field definitions

- How do we add state specific data?

- How do we create an HL7 sanctioned message?

Progress
Message Structure

- Used HL7 tools to create a set of XML schemas consistent with HL7 RIM

- Used XAWARE product to read the schemas

Details

- Included schemas

- Metadata

- Relative addressing

- Wrappers

Progress
Message Content

- NCHS standard certificate field definitions
  http://www.cdc.gov/nchs
  /vital_certs_rev.htm

- HL7 field definitions

  http://www.hl7.org/Library

  /data-model/RIM/c30122

  /vocabulary.htm

Vocabulary Overlaps

- Gender

- Race

- Ethnicity

- Marital Status

- City, County, Country, State

hl7:id
hl7:valid time

        hl7:low
hl7:width

        hl7:translation
hl7:high
hl7:center

hl7:code
    hl7:qualifier
      hl7:name
          hl7:originaltext
              hl7:reference
                  hl7:validtime
              hl7:thumbnail
hl7:reference
                      hl7:validtime
              hl7:thumbnail
hl7:reference
                  hl7:thumbnail